

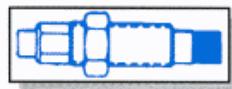
configuration, commissioning, and documentation. We have found, however, that the highest quality and lowest cost installations are turnkey installations.

Our customers have used D&IS for a number of reasons. They didn't have the time or people to learn to apply our products to their machinery, develop electrical and mechanical designs, and define and purchase required materials. They weren't able to use those materials to build the brackets and do the machining necessary to complete the installation. They might not have had the time or personnel to completely and accurately document all the work, documentation that would allow them to maintain the plant efficiently and comply with regulations that governed plant changes. D&IS takes care of all these aspects of an installation project.

D&IS personnel typically hold degrees in Mechanical Engineering. They undergo an extensive Bently Nevada Product Service training program as well as a year of on-the-job training under the guidance of our Senior Site Supervisors. Safety training is one of the most important parts of the program. As a result, our personnel have retrofitted over 300 different machine trains without a startup delay and without a lost time injury.

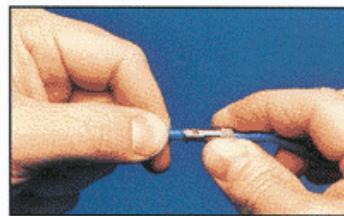
All of our individual installation designs undergo an internal review for correct dimensioning and proper application (using our knowledge-base of past applications and machine installations). From this review process, we continually refine our designs. We apply feedback from our Machinery Diagnostic Services group and from the Bently Rotor Dynamics Research Corporation to each new installation. This means that we supply our customers with the most up-to-date capabilities for protecting and managing their machines.

Contact your local representative to discuss Design & Installation Services' installation of your next machinery protection and management system. ■



## ProbeTip

### Connectors: Keep them snug and secure



1. Clean the connector of dirt and grease by spraying it with an electrical contact cleaner.

2. Connect the two halves by sliding back the ferrule and pushing the two pieces together. Tighten the ferrule of the connector finger tight.

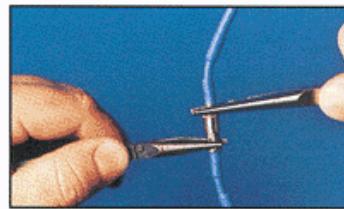
**O**ne of the weakest links in any electrical system is the connection point. Over the years, we have seen instances where intermittent readings, alarms, and even false shutdowns, have been traced to improperly made connections and improperly assembled connectors.

To reduce problems with connectors, we introduced our 3300 Series Proximity Transducer System several years ago with connectors made from stainless steel. This material has been found to be more robust and resistant to mechanical damage than the silver-plated brass used previously. If not installed properly, however, it can loosen and become a weak link in the system.

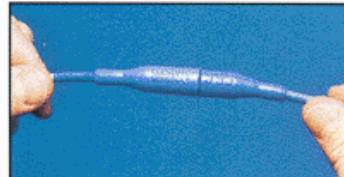
These five illustrated steps can help you make a good connection with your 3300 Series transducers.

Use of a Bently Nevada Connector Protector is recommended because they are reusable, provide excellent electrical isolation from ground, and are resistant to almost all chemicals.

Paying a little extra attention to the connections on your transducer system will make sure that your machinery protection and management system gives you reliable service. ■



3. Tighten the ferrule another 1/8 turn with pliers. This will ensure that the stainless steel surfaces will not disengage.



4. Cover the connector with a Bently Nevada Connector Protector, self-fusing silicone tape, or heat shrink tubing.



5. Remember to also tighten the connector on the Proximitron® finger tight plus 1/8 turn more.